DEPT. OF HEALTH, AND HUMAN SERVICES PUBLIC HEALTH SERVICE		FOR A VARIANCE 1040.11 (c) FOR A	Form Approved No. 57R0068
FOOD AND DRUG ADMINISTRATION	OR	LASER LIGHT SHOW, DISPLAY DOCKET NO	
NOTE: No laser light show or display device or use without the approval of	may vary from compliance wi	th 21 CFR 1040.11(c) in design with 21 CFR 1010.4	Ř
INSTRUCTIONS 1. Check all applicable boses and type or print to 2. Submit an original and four (4) copies	he requested information. 3	. Mail your application to the H	600 Fishers Lane, Rockville, MD 20857
1. NAME OF COMPANY		eren er	en de de la dell'Allande, que anno en montale de la composition della composition de
Scott Laser Technologies			
2. ADDRESS OF COMPANY (Include ZIP Code)	der traininger (not training the natheur sammann and an agus an agus an		
1055 Three Forks, Katy, TX 77450			
3. NAME OF RESPONSIBLE PERSON	4. TELEPHONE NO.	(include area code)	5. DATE OF SUBMISSION
David I. Conti	004 000 0040		
David L. Scott 6. The applicant requests the variance to be in eff	281 392-0846	mm the date of issue. /in name	March 8, 2005
a variance for only two years. If a longer period	d is requested a justification n	nust be attached as part of the	application.)
7.	PRODUCT DESCR	IPTION AND USE	
a. LIST NAME AND MODEL NUMBER(S) LUMALASER Projector System Co	olorBurst Jr		
PRODUCT FOR WHICH A VARIANCE IS RE A LASER DISPLAY DEVICE	QUESTED	f. PRODUCT IS INTEND x MORE THAN 15 DA	ED TO BE USED AT ANY ONE LOCAT
_ A PROJECTOR FOR A LASER LIGHT SHO	DW .	X MORE THAN 5 BUT	T NOT MORE THAN 15 DAYS
X A LASER LIGHT SHOW OTHER (Specify)		X LESS THAN 5 DAY	S
			77. 71 M. P.
C. X PROJECTORS ARE INTENDED FOR SALI		g. TOUR IS INTENDED	
OTHER LASER LIGHT SHOW PRODUCE! d. PRODUCT IS INTENDED FOR USE IN A	RS	_X_1-6 MONTHS _X_ LESS THAN 1 MC	NA PTIJ
X PLANETARIUM OR OTHER DOME PROJE	ECTION STRUCTURE	OTHER (Specify)	ALL D
X THEATER X DISCOTHEQUE OR NIGHT CLUB			å h
X PAVILION		h. PRODUCT UTILIZES	THE FOLLOWING LASER EFFECTS
X_INDOOR ARENAOUTDOOR ARENA		X FRONT SCREEN P	
x MUSEUM		HOLOGRAPHIC DIS	SPLAYS
OUTDOOR ENCLOSED AREA X OTHER (Specify) School and Church Audio	nrium	X MULTIPLE REFLEC	TIONS (multipie channels or diffraction e
		X REFLECTIONS FRO	OM STATIONARY MIRROR(S) OR
PRODUCT IS INTENDED TO BE USED		MIRRORED SURFA	ACES DIATION OF ROTATING MIRROR BALI
_AT ONLY ONE (fixed) LOCATION		OR OTHER MIRRO	RED SHAPES
X AT A VARIETY OF (tour) LOCATIONS OTHER (Specify)		SCANNING IRRADI	ATION OF ROTATING MIRROR BALL(S JECTIONS
		x FOG, SMOKE OR C	THER SCATTERING EFFECTS
		_ OTHER (Specify)	
8.	LASER RAD	NATION LEVELS	
LASER MEDIUM(Ar, He-Ne, etc.) GaALas Diode/GaN	the same of the sa	IGTHS (nm)	PEAK POWER (Wat
DPSS Nd:YV04	630-660 532		400 mW 400 mW
 IF ANY LASER RADIATION IS PULSED OR S AMPLITUDE 	CANNED, GIVE THE PULSE	DURATION AND RATE AND	SCANNING FREQUENCY AND
DC-4 KHZ, 0-80° optical X-Y scar	า		
-			
10. REASON FOR REQUESTING VARIANCE X COMPLIANCE WITH THE LIMITS OF 21	CFR 1040 11/n) WOLE D P	ESTRICT THE INTENDED HE	E OF THE PRODUCT BEEN ICE
COMPLIANCE WOULD LIMIT THE OUT	PUT POWER TO THE EXTE	NT THAT THE DESIRED EFF	ECTS WOULD NOT BE
SUFFICIENTLY VISIBLE	N (Specify)		9 07
OTHER OR ADDITIONAL EXPLANATION	A CONTRACTOR OF THE CONTRACTOR		1) 2091
OTHER OR ADDITIONAL EXPLANATION			
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	ci l		VARI

- 11. MANNER IN WHICH IT IS PROPOSED TO DEVIATE FROM THE REQUIREMENTS OF THE APPLICABLE STANDARD

 X IT IS PROPOSED TO DEVIATE FROM THE PROVISIONS OF 21 CFR 1040.11 (c) IN THAT THE ACCESSIBLE EMISSION LEVEL WOULD EXCEED THE ACCESSIBLE EMISSION LIMITS OF CLASS I OR CLASS II
 - IT IS PROPOSED TO DEVIATE FROM THE PROVISION OF 21 CFR 1040.11 (c) AS FOLLOWS:
- 12. ADVANTAGES TO BE DERIVED FROM SUCH DEVIATION
 - X LASER LIGHT SHOWS AND DISPLAYS ARE ACCEPTED POPULAR MEDIA IN ENTERTAINMENT AND THE ARTS, USE OF POWER LEVELS IN EXCESS OF THE LIMITS IMPOSED BY 21 CFR 1040.11 (c) IS NECESSARY TO ACHIEVE THE REQUIRED EFFECTS IN THESE MEDIA.
 - __ OTHER OR ADDITIONAL ADVANTAGES (describe and explain)
- 13. EXPLAIN THE ALTERNATE MEANS OF RADIATION PROTECTION TO BE PROVIDED. (Check as many boxes as apply. In item 14 "Remarks", justify any boxes not checked, using additional sheets as necessary. State any other means of radiation protection that will be used.)
- a. XALL LASER PRODUCTS, SYSTEMS AND PROJECTORS WILL BE CERTIFIED TO COMPLY WITH 21 CFR 1040.10 AND THE CONDITIONS OF THIS VARIANCE AND WILL BE REPORTED AS REQUIRED BY 24 CFR 1002.10 AND 1002.12 USING THE REPORTING GUIDES PROVIDED FOR SUCH PURPOSE. THESE ACTIONS WILL BE ACCOMPLISHED PRIOR TO ANY INTRODUCTION INTO COMMERCE.
- b. _X_EFFECTS NOT SPECIFICALLY INDICATED IN THIS VARIANCE APPLICATION WILL NOT BE PERFORMED, NO OTHER EFFECTS WILL BE ADDED UNTIL AN AMENDMENT TO THE VARIANCE HAS BEEN OBTAINED AND THE REQUIRED REPORTS OR SUPPLEMENTS, AS APPLICABLE, HAVE BEEN SUBMITTED.
- c. X SCANNING, PROJECTION, OR REFLECTION OF LASER AND COLLATERAL RADIATION (LIGHT SHOW RADIATION) INTO AUDIENCE OR OTHER ACCESSIBLE UNCONTROLLED AREAS WILL NOT BE PERMITTED EXCEPT FOR DIFFUSE REFLECTIONS PRODUCED BY THE ATMOSPHERE, ADDED ATMOSPHERIC SCATTERING MEDIA, AND TARGET SCREENS.
- d. X LASER RADIATION LEVELS IN EXCESS OF THE LIMITS OF CLASS I WILL NOT BE PERMITTED AT ANY POINT LESS THAN 3.0 METERS ABOVE ANY SURFACE UPON WHICH PERSONS OTHER THAN OPERATORS, PERFORMERS, OR EMPLOYEES ARE PERMITTED TO OR 2.5 METERS BELOW OR IN LATERAL SEPARATION FROM ANY PLACE WHERE SUCH PERSONS ARE PERMITTED TO BE.

 OPERATORS, PERFORMERS, AND EMPLOYEES WILL NOT BE REQUIRED OR ALLOWED TO VIEW RADIATION ABOVE THE LIMITS OF CLASS I OR BE EXPOSED TO RADIATION ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.11 (c).
- e. X ANY PRODUCT WHICH RELIES ON SCANNING TO MEET ACCESS, EXPOSURE, OR PRODUCT CLASS LIMITS WILL INCORPORATE A SCANNING SAFEGUARD SYSTEM WHICH DIRECTLY SENSES SCANNER MOTION AND WHICH WILL REACT FAST ENOUGH TO PRECLUDE EXCEEDING THE APPLICABLE LIMIT.
- f. X ALL LASER LIGHT SHOWS SHALL BE UNDER THE DIRECT AN PERSONAL CONTROL OF TRAINED, COMPETENT OPERATOR(S). THE OPERATOR(S) WILL:
 - (1) IMMEDIATELY TERMINATE THE EMISSION OF LIGHT SHOW RADIATION IN THE EVENT OF ANY UNSAFE CONDITION;
 - (2) BE LOCATED WHERE ALL BEAM PATHS CAN BE DIRECTLY OBSERVED AT ALL TIMES; AND
 - (3) BE AN EMPLOYEE OF THE VARIANCE HOLDER WHO WILL BE RESPONSIBLE FOR THE TRAINING AND CONDUCT OF OPERATOR
- g.. X THE MAXIMUM LASER PROJECTOR OUTPUT POWER WILL NOT EXCEED THE LEVEL REQUIRED TO OBTAIN THE INTENDED EFFECTS.
- h. X THE PROJECTION SYSTEM (I.E., THE PROJECTOR AND ALL OTHER COMPONENTS USED TO PRODUCE THE LIGHTING EFFECTS WILL BE SECURELY MOUNTED OR IMMOBILIZED TO PREVENT UNINTENDED MOVEMENT OR MISALIGNMENT. BEAM LIMITS WILL BE PROVIDED AS AN INHERENT PART OF THE SYSTEM DESIGN TO PREVENT OVERFILLING OF SCREENS, BEAM STOPS, TARGETS, ETC.
- T_X LASER PROJECTORS WILL NOT BE DELIVERED TO ANY OTHER PARTY UNDER AN AGREEMENT OF SALE, LEASE, OR LOAN UNLESS
 AND UNTIL THE RECIPIENT DEMONSTRATES THAT THEY HAVE A VARIANCE IN EFFECT AT THE TIME OF DELIVERY THAT PERMITS
 THEM TO PRODUCE LASER LIGHT SHOWS INCORPORATING SUCH PROJECTOR.
- j. X. IN ADDITION TO THE REQUIREMENTS OF 21 CFR 1040.10 (h), THE MANUFACTURER OF LASER PROJECTORS/SYSTEMS WILL PROVIDE TO PARTIES WHO PURCHASE, LEASE, OR BORROW THE EQUIPMENT, ADEQUATE USER'S INSTRUCTIONS FOR SAFE INSTALLATION AND OPERATION AND WHICH EXPLAIN THE RESPONSIBILITY OF THE RECIPIENT AS AN INDEPENDENT LIGHT SHOW MANUFACTURER TO SUBMIT THE REQUIRED REPORTS AND APPLY FOR AND OBTAIN A VARIANCE FROM CDRH PRIOR TO INTRODUCTION INTO COMMERCE OF ANY LASER LIGHT SHOWS.
- K. X. THE REQUIREMENTS OF 21 CFR 1002.30 (a)(1) AND (2) WILL BE ACCOMPLISHED THROUGH THE USE OF WRITTEN PROCEDURES FOR SETUP ALIGNMENT, TESTING, AND PERFORMANCE OF EACH SHOW. THESE PROCEDURES WILL BE IN SUFFICIENT DETAIL TO ENSURE COMPLIANCE WITH 21 CFR 1040.10. THE CONDITIONS OF THIS VARIANCE, AND CONTROL OF ACCESS TO RADIATION AREAS USING THE PROCEDURES DESCRIBED IN THE ANSI (2136.1 STANDARD FOR THE SAFE USE OF LASERS (AMERICAN NATIONAL STANDARDS INSTITUTE, 1430 BROADWAY, NEW YORK, NY 10018) OR ANY OTHER EQUIVALENT USER CONSENSUS STANDARD AND AND, WHERE APPLICABLE, STATE OR LOCAL REQUIREMENTS. LASER RADIATION AREAS WHICH CAN CONTAIN RADIATION LEVELS ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.11(c), WILL BE CLEARLY IDENTIFIED BY THE POSTING OF WARNING SIGNS AND/OR RESTRICTED ACCESS THROUGH PHYSICAL MEANS (SUCH AS PRESSURE SWITCHES, PHOTOCELLS, BARRIERS, GUARDS, ETC.). THESE REQUIREMENTS APPLY TO TEMPORARY AREAS (SUCH AS DURING SETUP AND ALIGNMENT PROCEDURES) AND TO FINAL OR PERMANENT AREAS. THE VARIANCE HOLDER WILL RETAIN THE RECORDS OF THESE PROCEDURES AND THE RESULTS OF ALL TESTS AS REQUIRED BY 21 CFR 1002.31, A COPY OF THE VARIANCE APPLICATION, THE APPROVAL LETTER, CURRENT PROCEDURES AND RECORDS RELATING TO EACH PARTICULAR SHOW WILL BE WITH THE OPERATOR OR OTHER RESPONSIBLE INDIVIDUAL AND WILL BE MADE AVAILABLE FOR INSPECTION BY FDA AND OTHER RESPONSIBLE AUTHORITIES

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- I. X ADVANCE WRITTEN NOTIFICATION WILL BE MADE AS EARLY AS POSSIBLE TO APPROPRIATE FEDERAL, STATE AND LOCAL AUTHORITIES PROVIDING SHOW ITINERARY WITH DATES AND LOCATIONS CLEARLY AND COMPLETELY IDENTIFIED, AND A BASIC DESCRIPTION OF PROPOSED EFFECTS INCLUDING A STATEMENT OF THE MAXIMUM POWER OUTPUT INTENDED. SUCH NOTIFICATIONS WILL BE MADE, BUT NOT NECESSARILY LIMITED TO:
 - (1) THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH, OFFICE OF COMPLIANCE (HFZ-312),2098 GAITHER ROAD,ROCKVILLE, MD 20880.PROVIDING THE INITIAL AND CLOSING DATES FOR THE FIXED INSTALLATION AND THE ITINERARY FOR MOBILE SHOWS IN ADDITION, UNLESS ALL ASPECTS OF EACH SHOW HAVE BEEN REPORTED AND THE ACCESSION NUMBERS CLEARLY REFERENCED, EACH NOTICE WILL INCLUDE DETAILED DESCRIPTIONS OF EACH SHOW AND A LISTING OF ALL EFFECTS TO BE PERFORMED IN SUFFICIENT DETAIL TO CONFIRM COMPLIANCE WITH THE REGULATIONS AND THIS VARIANCE.
 - (2) THE FEDERAL AVIATION ADMINISTRATION (FAA) FOR ANY PROJECTIONS INTO OPEN AIRSPACE AT ANY TIME (I.E., INCLUDING SET-UP, ALIGNMENT, REHEARSALS, PERFORMANCES, ETC.). IF THE FAA OBJECTS TO ANY LASER EFFECTS, THE OBJECTIONS WILL BE RESOLVED AND MY CONDITIONS REQUESTED BY FAA WILL BE ADHERED TO. IF THESE CONDITIONS CAN NOT BE MET. THE OBJECTIONABLE EFFECTS WILL BE DELETED FROM THE SHOW.
 - (3) STATE AND LOCAL RADIATION CONTROL OFFICES/AGENCIES FOR ALL SOWS TO BE PERFORMED WITHIN THEIR JURISDICTIONS. ALL REQUIREMENTS OF STATE AND LOCAL LAW WILL BE SATISFIED AND ANY OBJECTIONS RAISED BY LOCAL AUTHORITIES WILL BE RESOLVED OR THE EFFECTS DELETED. (LISTS OF FEDERAL AND STATE OFFICES ARE AVAILABLE FROM THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH UPON REQUEST.)

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CERTIFICATION

I CERTIFY that all of the above information and statements are true, complete and correct to the best of my knowledge and acknowledge that my variance application may be denied or my variance may be revoked if this application is found to be false, misleading or incorrect in any material way. I have submitted/will submit all reports required by 21 CFR 1002.12 on the laser equipment and show(s). I further understand that I may be required by regulation or by the Director, Bureau of Radiological Health to supply such other information that may be necessary to evaluate and act on this application.

15. SIGNATURE

16. NAME (Type or Print)

17. TITLE

David L. Scott

Owner

Dard L. Light